

[illegible]

[illegible]

(3) 137 PURGE DATAPATH

```
0000 1 .NOSHOW CONDITIONALS
0000 5
0000 9
0000 13
0000 15 .TITLE L10SUB790 - LOADABLE I/O SUBROUTINES
0000 17
0000 21
0000 22 .IDENT 'V04-000'
0000 23
0000 24
0000 25 *****
0000 26 *
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0000 44 *
0000 45 *
0000 46 *****
0000 47
0000 48 ++
0000 49
0000 50 FACILITY:
0000 51
0000 52 EXECUTIVE, I/O CONTROL ROUTINES
0000 53
0000 54 ABSTRACT:
0000 55
0000 56 I/O SUBROUTINES WHICH CONTAIN PROCESSOR DEPENDENCIES.
0000 57
0000 58 AUTHOR:
0000 59
0000 60 N. KRONENBERG, JANUARY 12, 1979.
0000 61
0000 62 MODIFIED BY:
0000 63
0000 64 V03-012 KDM0096 Kathleen D. Morse 27-Mar-1984
0000 65 Add memory CSR scanning to IOC$PURGDATAP for MicroVAX I.
0000 66 (All DMA MicroVAX I drivers should call this routine, just
0000 67 before calling IOC$REQCOM.)
0000 68
0000 69 V03-011 KDM0081 Kathleen D. Morse 13-Sep-1983
0000 70 Create a version for Micro-VAX I.
0000 71
```


0000	72	:	V03-010	TCM0004	Trudy C. Matthews	4-Jan-1982
0000	73	:		Added 11/790-specific path to IOC\$PURGDATAP.		
0000	74	:				
0000	75	:	V09	TCM0003	Trudy C. Matthews	9-Nov-1982
0000	76	:		Added a .TITLE statement for L10SUB790.		
0000	77	:				
0000	78	:	V08	TCM0002	Trudy C. Mathews	29-Jul-1981
0000	79	:		Changed all '7ZZ's to '730's.		
0000	80	:				
0000	81	:	V07	TCM0001	Trudy C Matthews	28-Feb-1980
0000	82	:		Changed IOC\$PURGDATAP for NEBULA so that it logs		
0000	83	:		the Unibus Error Summary register itself when there		
0000	84	:		are Unibus errors reported.		
0000	85	:				
0000	86	:	V06	NPK0002	N. KRONENBERG	4-DEC-1979
0000	87	:		REPLACED IOC\$PURGDATAP FOR NEBULA		
0000	88	:				
0000	89	:	V05	NPK0001	N. KRONENBERG	23-AUG-1979
0000	90	:		CORRECTED 11/750 CHECK FOR PURGE DONE.		
0000	91	:				
0000	92	:	V04	TCM0001	Trudy C. Matthews	3-Jul-1979
0000	93	:		Modified IOC\$PURGDATAP for NEBULA.		
0000	94	:				
0000	95	---				

```

0000 97 :
0000 98 : MACRO LIBRARY CALLS:
0000 99 :
0000 100 $ADPDEF : Define ADP offsets
0000 101 $CRBDEF : Define CRB offsets
0000 102 $EMBETDEF : Define error types.
0000 103 $EMBUEDEF : Define Unibus Error buffer.
0000 104 $IDBDEF : Define IDB offsets
0000 105 $PRDEF : Define IPR'S
0000 106 $UBADEF : Define UBA offsets
0000 107 $UBIDEF : Define UBI offsets
0000 108 $UCBDEF : Define UCB offsets
0000 109 $VECDEF : Define CRB/VEC offsets
0000 110
0000 115
0000 120
0000 125
00000001 0000 127 C780_LIKE = 1
00000000 0000 128 C750_LIKE = 0
0000 130
0000 135

```

```
0000 137 .SBTTL PURGE DATAPATH
0000 138 :+
0000 139 : IOC$PURGDATAP - PURGE DATAPATH
0000 140 :
0000 141 : This routine purges the caller's buffered datapath, and clears any
0000 142 : datapath errors. if there was a datapath error, this fact is
0000 143 : returned to the caller.
0000 144 :
0000 145 : INPUTS:
0000 146 :
0000 147 : R5 = UCB address
0000 148 :
0000 149 : OUTPUTS:
0000 150 :
0000 151 : R0-R3 altered
0000 152 : Other registers preserved
0000 153 : R0 = low bit clear/set if transmission error/success
0000 154 : R1 = DPR contents after purge (for register dump by caller)
0000 155 : R2 = address of start of adapter map registers (for reg dump by caller)
0000 156 : R3 = CRB address
0000 157 :-
0000 158
0000 159 .PSECT WIONONPAGED
0000 160
0000 161 .ENABL LSB
0000 162
0000 163 IOC$PURGDATAP::
53 24 10 BB 0000 165 PUSH R4 ; Save register
52 38 B3 D0 0002 166 UCB$CRB(R5),R3 ; Get CRB address
000A 167 MOVL @CRB$_INTD+VEC$_ADP(R3),R2 ; Get start of adapter register space
000A 168
000C 169 EXTZV #VEC$_DATAPATH,- ; Extract datapath #
000D 170 #VEC$_DATAPATH,- ; from CRB
51 37 A3 000D 171 CRB$_INTD+VEC$_DATAPATH(R3),R1
54 40 A2 41 DE 0010 172 MOVAL UBAS$_DPR(R2)[R1],R4 ; Get address of DPR
64 01 1F 78 0015 173 ASHL #UBAS$_DPR_BNE,#1,(R4) ; Purge datapath
08 51 64 D0 0019 174 MOVL (R4),R1 ; Get DPR contents
64 01 1E E1 001C 175 BBC #UBAS$_DPR_XMTER,R1,20$ ; Branch if no error
00 50 D4 0024 176 ASHL #UBAS$_DPR_XMTER,#1,(R4) ; Clear error in DPR
03 11 0026 177 CLRL R0 ; Set to return transfer error
50 01 9A 0028 178 BRB 30$ ; Join common code
52 0800 C2 DE 002B 179 20$: MOVZBL #1,R0 ; Set to return transfer success
0030 180 30$: MOVAL UBAS$_MAP(R2),R2 ; Return addr of 1st map register
0030 181
0030 182 POPR #M<R4> ; Restore register
05 0032 183 RSB ; Return
0033 185
0033 186
0033 214
0033 263
0033 297
0033 298 .DSABL LSB
0033 299
0033 300 .END
```


L10SUB790
Symbol table

- LOADABLE I/O SUBROUTINES

L 3

16-SEP-1984 01:00:55 VAX/VMS Macro V04-00
5-SEP-1984 04:10:05 [SYSLOA.SRC]L10SUB.MAR;1

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(3)

C750_LIKE	=	00000000		
C780_LIKE	=	00000001		
CPU_TYPE	=	00000004		
CRBSL_INTD	=	00000024		
IOCSPORGDAP	=	00000000	RG	02
PRS_SID_TYP730	=	00000003		
PRS_SID_TYP750	=	00000002		
PRS_SID_TYP780	=	00000001		
PRS_SID_TYP790	=	00000004		
PRS_SID_TYPUV1	=	00000007		
UBASL_DPR	=	00000040		
UBASL_MAP	=	00000800		
UBASV_DPR_BNE	=	0000001F		
UBASV_DPR_XMTER	=	0000001E		
UCBSL_CRB	=	00000024		
VECSB_DATAPATH	=	00000013		
VECSL_ADP	=	00000014		
VECSS_DATAPATH	=	00000005		
VECSV_DATAPATH	=	00000000		

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
WIONONPAGED	00000033 (51.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	47	00:00:00.05	00:00:01.51
Command processing	140	00:00:00.57	00:00:04.28
Pass 1	276	00:00:05.04	00:00:18.70
Symbol table sort	0	00:00:00.77	00:00:02.65
Pass 2	43	00:00:00.98	00:00:06.54
Symbol table output	4	00:00:00.02	00:00:00.02
Psect synopsis output	2	00:00:00.02	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	514	00:00:07.45	00:00:33.72

The working set limit was 1350 pages.
44289 bytes (87 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 773 non-local and 2 local symbols.
304 source lines were read in Pass 1, producing 13 object records in Pass 2.
17 pages of virtual memory were used to define 16 macros.

! Macro library statistics !

Macro library name	Macros defined
-----	-----
\$255\$DUA28:[SYSLOA.OBJ]790DEF.MLB;1	0
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	9
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	13

864 GETS were required to define 13 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:L10SUB790/OBJ=OBJ\$:L10SUB790 MSRC\$:CPUSW790/UPDATE=(ENH\$:CPUSW790)+MSRC\$:L10SUB/UPDATE=(ENH\$:L10SUB)+EXECMLS/LIB+LIBS

0397 AH-BT13A-SE
VAX/VMS V4.0

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